

Title (en)

APPARATUS FOR DETERMINING THE DIAMETER AND/OR THE OUTER CONTOUR OF A STRAND-SHAPED OBJECT

Title (de)

VORRICHTUNG ZUR BESTIMMUNG DES DURCHMESSERS UND/ODER DER AUSSENKONTUR EINES STRANGFÖRMIGEN GEGENSTANDES

Title (fr)

DISPOSITIF DE DÉTERMINATION DU DIAMÈTRE ET/OU DU CONTOUR EXTÉRIEUR D'UN OBJET EN FORME DE BARRE

Publication

EP 3827215 B1 20230510 (DE)

Application

EP 19744662 A 20190722

Priority

- DE 102018118097 A 20180726
- EP 2019069673 W 20190722

Abstract (en)

[origin: WO2020020820A1] The invention relates to an apparatus for determining the diameter and/or the outer contour of a strand-shaped object, comprising at least one transmitting device for emitting measuring radiation onto the strand-shaped object, wherein the measuring radiation is reflected by the strand-shaped object, also comprising at least one receiving device for receiving the measuring radiation emitted by the at least one transmitting device and reflected by the strand-shaped object, and comprising an evaluation device which is set up to determine the diameter and/or the outer contour of the strand-shaped object on the basis of the measuring radiation received by the at least one receiving device, wherein at least one retroreflector surrounding at least sections of the strand-shaped object is provided and completely or partially retroreflects the measuring radiation reflected by the strand-shaped object.

IPC 8 full level

G01B 11/24 (2006.01)

CPC (source: EP KR US)

G01B 11/08 (2013.01 - KR US); **G01B 11/2408** (2013.01 - EP KR US); **G01B 11/245** (2013.01 - KR US); **G01B 11/2513** (2013.01 - US); **G01B 11/30** (2013.01 - KR US); **G01N 21/88** (2013.01 - KR US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2020020820 A1 20200130; CN 112469960 A 20210309; CN 112469960 B 20240416; DE 102018118097 A1 20200130; EP 3827215 A1 20210602; EP 3827215 B1 20230510; JP 2021535358 A 20211216; JP 7194758 B2 20221222; KR 102576470 B1 20230907; KR 20210033507 A 20210326; US 11519718 B2 20221206; US 2021172727 A1 20210610

DOCDB simple family (application)

EP 2019069673 W 20190722; CN 201980048438 A 20190722; DE 102018118097 A 20180726; EP 19744662 A 20190722; JP 2020570433 A 20190722; KR 20217004878 A 20190722; US 201917263336 A 20190722